

REMARKS

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 1-20, 22, 23, 25, 27 and 29-34 are now present in the application. Claims 1 and 30 have been amended. Claims 24 and 28 have been cancelled. Claims 1 and 30 are independent. Reconsideration of this application, as amended, is respectfully requested.

Claim Rejections Under 35 U.S.C. § 102

Claims 1, 2, and 5-20, 22-25 and 27-29 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Raychaudhuri, U.S. Patent Application Publication No. US 2004/0140758. Claims 3, 4 and 30-34 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Raychaudhuri. These rejections are respectfully traversed.

In light of the foregoing amendments to the claims, Applicants respectfully submit that these rejections have been obviated and/or rendered moot. As the Examiner will note, independent claims 1 and 30 have been amended.

Independent claim 1 recites a combination of elements including "a nanostructured organic electroluminescent recovery layer, comprising dielectric or organic material, doped with nanoscale metal particles, wherein the nanoscale metal particle comprises Au, Ag, Ge, Se, Sn, Sb, Te, or Ga".

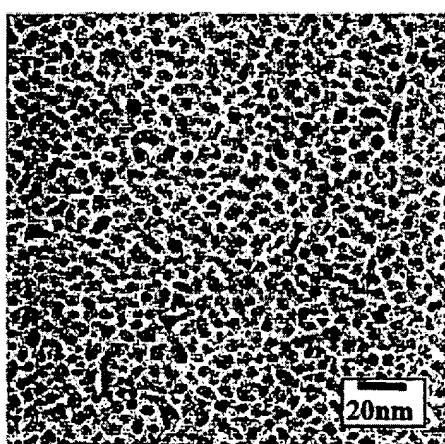
Independent claim 30 recites a combination of elements including "a first nanostructured organic electroluminescent recovery layer comprising first dielectric or organic material, doped with first nanoscale metal particles, "a second nanostructured organic electroluminescent recovery layer comprising second dielectric or organic material, doped with second nanoscale

metal particles” and “the first and second nanoscale metal particles comprise Au, Ag, Ge, Se, Sn, Sb, te, or Ga.”

Support for the above combinations of elements can be found on page 4, lines 20-21, and page 7, lines 26-27 of the specification. Applicants respectfully submit that the above combinations of elements as set forth in amended independent claims 1 and 30 are not disclosed nor suggested by the reference relied on by the Examiner.

Raychaudhuri disclose an OLED device including a transmission enhancement layer. In particular, Raychaudhuri in paragraph [0068] discloses that the transmission enhancement layer includes aluminum-doped ZO, MgO, MoO_x, SiO₂ Al₂O₃ TiO₂, ZrO₂, SiN, AlN, TiN, ZrN, SiC, or Al₄C₃, or mixtures thereof. However, Raychaudhuri nowhere teaches or suggests that the transmission enhancement layer is dielectric or organic material doped with Au, Ag, Ge, Se, Sn, Sb, Te, or Ga as recited in amended claims 1 and 30.

Applicants also provide a transmission electron microscopy (TEM) spectrograph of the nanostructured organic electroluminescent recovery layer (silicon oxide layer doped with Au) as follows:



Since the nanoscale metal particle Au, Ag, Ge, Se, Sn, Sb, Te, or Ga uniformly distributes among the dielectric or organic material layer, the nanostructured organic electroluminescent recovery layer will facilitate the cross-coupling of the surface plasmon resonance of OLED device and the surface plasmon resonance of the nanostructured film, thereby recovering the trapped light and improving the OLED luminescent efficiency. Applicants respectfully submit that the claimed nanostructured organic electroluminescent recovery layer is different from Raychaudhuri's transmissive enhancement layer not only by name, but also by function.

Since Raychaudhuri fails to teach each and every limitation of amended independent claims 1 and 30 or their dependent claims, Applicants respectfully submit that independent claims 1 and 30 and their dependent claims clearly define over the teachings of Raychaudhuri. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 and 103 are respectfully requested.

CONCLUSION

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Joe McKinney Muncy, Registration No. 32,334 at (703) 205-8000 in the Washington, D.C. area.

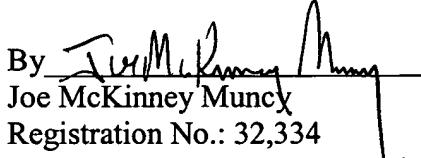
Application No. 10/644,975
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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Dated: April 24, 2006

Respectfully submitted,

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